- 19. The macromer of claim 1 wherein the dry macromer absorbs at least about 10% in weight of water.
- 20. The macromer of claim 1 wherein the molecular weight of the macromer is at least 1000 Daltons.
- 21. The macromer of claim 1 wherein the molecular 5 weight of the macromer is at least 2000 Daltons.
- 22. The macromer of claim 1 wherein the molecular weight of the macromer is at least 4000 Daltons.
- 23. The macromer of claim 1 further comprising at least two hydrophilic blocks.
- **24**. The macromer of claim 1 provided in a pharmaceutically acceptable carrier.
- 25. The macromer of claim 24 wherein the macromer is provided in a carrier suitable for parenteral administration.
- 26. The macromer of claim 1, wherein the thermally 15 sensitive region is selected from the group consisting of poloxamers, meroxapols, poloxamines, polyvinyl alcohol, polyvinyl-pyrrolidone, polyacrylic acids, esters, amides, celluloses, peptides and proteins, dextrans and other polysaccharides, polyalkylene oxides, and natural gums.
- 27. A macromer which is capable of forming a gel, the macromer comprising at least four covalently linked polymeric blocks, wherein:
 - a) at least one polymer block is hydrophilic and each hydrophilic polymer block individually has a water ²⁵ solubility of at least 1 gram/liter;
 - b) at least two blocks are sufficiently hydrophobic to cause the macromer to aggregate to form micelles in an aqueous continuous phase;
 - c) the macromer comprises at least one crosslinkable group;

- d) the macromer comprises at least one thermally sensitive region;
- e) a solution of the macromer is capable of gelling or crosslinking to produce a hydrogel with a temperature dependent volume; and
- f) the thermally sensitive region comprises a poloxamer backbone extended with oligolactate moities, wherein the poloxamer-lactate copolymer is terminated by acrylate moieties.
- 28. A macromer which is capable of forming a gel, the macromer comprising at least four covalently linked polymeric blocks, wherein:
 - a) at least one polymer block is hydrophilic and each hydrophilic polymer block individually has a water solubility of at least 1 gram/liter;
 - b) at least two blocks are sufficiently hydrophobic to cause the macromer to aggregate to form micelles in an aqueous continuous phase;
 - c) the macromer comprises at least one crosslinkable group;
 - d) the macromer comprises at least one thermally sensitive region;
 - e) a solution of the macromer is capable of gelling or crosslinking to produce a hydrogel with a temperature dependent volume; and
 - f) the thermally sensitive region comprises an acrylate capped polyglycolide derivatized poloxamer of about 30% polypropylene oxide content.

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